	CHRONIC GOSTRUCTIVE LUNG DISEASE (COLD)
	OR
er od ro stocké odkom	CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)
· Arr www.	"COLO" includes three major diseases:
	1. Pulmonary emphysema
	2. Chronic bronchitis
*** <b>*</b> *-****	3. Asthma (not associated with smoking)
	4. All result in resistance to and obstruction of air flow.
	General Information From 1984 SGR On COLO
	- 80 to 90% of these deaths are attributable to
SAMPRATO C. 1 - NO. VICTORIA	cigarette smaking
- Maria Carrier Control of the Programmer	- over 10 million Americans suffer from either chronic
	bronchitis ar emphysema
	- caro merbidity has greater in pact than caro
	mortality due to slow progressive nature of disease
·	- COLD total deaths are increasing from 33,000 in 1970
	to 53,000 :- 1980 to 60,000 cited is the 1984 SQR
	- colo in women is increasing; the note-to-female
- Maria de la Res de Santaga de la compansión	ratio has changed from 4.3 to 1 in 1970 to 2.3 to 1
****	in 1980
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	DEFINITIONS
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	Emphysema
	1. Defined anatomically as enlargement of the alveoli
, en en eur op europe mytogenegener	with destruction of alucolar walls; elasticity of
	lungs is destroyed and lung valunes increase;
	clinically it presents as shortness of breath due to
	air trapping and inability to expelair; irreversible
	and progressively worsens over time leading to death
	due to respiratory failure
en de la companya de	
	Chronic Bronchitis
	1. Defined clinically as the presence of rough aid sputum
. product	ion for 3 or more consecutive months out of a year;
e North against against a saide sinn	basically the chronic hypersecretion of mucus;
, - C, aux — moterospieuseryseus	characterized by shortness of breath that comes and
	goes with pulmonary infection; results in increase in
P . Mr e. a T. Wie . T. Jaket is	lung infections but generally does not lead to
· · · · · · · · · · · · · · · · · · ·	death
	a while emphysema and chronic branchitis are reparate disease
- % 5 mily and particles of surrelations to be designed.	processes they are usually found together in the patient
A SECTION OF PROPERTY OF SECTION SECTI	and "pure" emphysema or chronic bronchitis is relatively rave
Se Sale remaining and the second and	2501199366
	Asthna
14 ° ° ° 6 Select Miller (17 ° ) resident	1. Reversible airflow obstruction due to branchial constriction
-, -, -,	in response to stimuli such as allergens, exercise, cold sir,
/ Sus, report	etc.; branchadialators are effective

Pose male slides

of pase 199 and

pase 202 from

the 1984 SGR

chronic Obstructive

Luns Disease

"Cigarette smoking has been clearly identified as a major causal factor in the development of pulmonary emphysema in humans. However, an animal model for the development of emphysema using the inhalation of eigerette smoke alone has not been convincingly demonstrated."

1984 SGR p.277

Animal experiments for the development of emphysema have been successful using

- 1. oxides of nitrogen
- a. ozone
- 3. aerosolized enzymes
- 4. cadmium salts
- s. diet zinc, copper deficiencies

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67/2	nonary Function Tests (PFTs)
. S. 9 s	rometry ( Effort Dependent - Three Tests)
	forced expiration moneuver that yields data on
	lung volumes
	FEV, ; FVC; FEV, /FVC; all expiratory flow
	rates are greatly decreased
	PFTs are expressed as percentage of normals; +1
	patient should be representative
مد ــا	g Volumes
	capo is associated with increased reserve valume
	Emphysema results in increased total lung capacity
	due to loss of lung elasticity and hyperexpansion
<u> </u>	RY (reserve volume) and TLC (total lung
	capacity) increase
Blas	d Gases
	determine the oxygenation of a patient's blood
	and the degree of retention of carbon monaxide
	to assess overall respirators status
<b> </b>    -	corp patients can maintain fairly normal blood gase
	except when subjected to an exercise test
<b>  </b>	2501199370
₩ <i>0:4</i>	fusion Capacity (OLCO)
_	measures efficiency of exchange of gases across the
	alrealor walls using mixture of helium and CO
_	dependent on total area of alveolor/capillary

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	Radialogy - Emphysens
	= == == == == == == == == == == == == =
	holes"
	- Overexpanded lungs; increased diameter of chest on: A-P chest x-ray; hyperexpansion of ribs
	permit you to see additional ribs in the lung fields  (normal = 9 ribs)
	- Low flattened diaphragms
	- Heart shadow normal or small
**************************************	- Presence of rounded bullous formations are important
	1. could indicate giant bullous disease or
	bullous emphysems neither associated  with cigarette smoking
	7501
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	Symptoms - Emphysema
~_ (	- shortness of breath, especially on exertion
9	- barrel chested appearance
	- hyperresonance of chest (hollow sound when thumped
	due to overinflation and trapped air)
	- intensity of breath sounds diminished (chest is
	overexpended and the air moves slowly thus the
##3 <del>***********************************</del>	doctor cannot hear the movement of the air
	- review medical records for these findings
	PATHOLOGY - EMPHYSEMA
	- biopsy specimens - finsufficient
	- can only be accurated of diagnosed pathologically
	on autopen with property fixed and inflated lung
	- pathologist vs. pulmonary physician
	1. pathologist believes emphysema can only be
	confirmed by microscopic examination of lung
	tissue
In transmitter property property and the same of the same property and the same prop	a primonory physician believes exmetons, PFTs
	and shest x-reg; can yield definitive
	diagnosis
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	The state of the s
	EMPHYSEMA TYPES
	There are three types of emphysema believed to be distinct
	anatomically and clinically
	1. Panlobular (or panacinar) Emphysema
	- the enlargement of air spaces is distributed
	uniformly along alveolor ducts and alveolar sacs
	- more prominent in lower lober
	- associated with the genetic disorder alpha-1-ontitrops
	deficiency where the lung lacks on enzyme that
	prevents the breakdown of elastin by other enzymes
	- this type is NOT associated with cigarette anaking
	2 Centrilobular Emphysena
	- starts in the alvedor sacs of the terminal branchiales
; ;	and progresses outward to involve the alveoli in
*	the periphery
-	- occurs +mainly in the upper lober
*************************	- : generally a sociated with cigarette snaking
	3. Irregular Or Scar Enphysema
7	- localized airepace enlargement due to scarring
	(fibrosis)
	- not associated with disperette smaking
	2501199374
	4. Giant Bullows Discose
ary new particular and the second	- large spherical, "blebs or "bullee" with hornal dung - generally occur in upper labes tissue elsewhere
	- not associated with digarette smoking
	They assecreted with CI Sarcine processing

1. cigaretto		-i. Acci.
11	tion ( nitrogendie	
ozone, e	te.)	
4. history	it respiratory in fect	-ions/diseases
5. diet/n	reitian	
c. alcahal		
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to dusts		
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DEFENSE POINT	2.7			- Managaran Makan Makan San ayan, Astan da
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Is there pathological	\ confirme	tion on	ortopes 2	?
chronic bronchitis or a:  Is there mixed obstr	ithne the	t eccount	.s. <del>L</del> or be	y 66 1
- Review medical and ac	emertedas	Lhistor	- for ot	her
- Negative animal inha		-		
- No known mechanism	for eigor	Hens offs	ing conta	tion t
Only 10 to 15 % of	smakers	<u> </u>	. 0	2501199377